**FOC02740(2)MATH 7**

**Course Outline**

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| **Chapter 1: Patterns and Relations** -Patterns in Division -Algebraic Expressions  -Relationships in Patterns  -Relationships in Tables  -Graphing Relations  -Reading, Writing and Solving Equations   **Chapter 2: Integers** -Representing Integers  -Adding Integers  -Subtracting Integers  **Chapter 3: Fractions, Decimals and Percent** -Fractions to Decimals  -Comparing/Ordering Fractions and Decimals  -Adding and Subtracting Decimals  -Multiplying and Dividing Decimals  -Order of Operations with Decimals  -Relating Fractions, Decimals and Percent  -Solving Percent Problems  **Chapter 4: Circles and Area** -Interpreting Circles  -Circumference of a Circle  -Area of a Parallelogram, Triangle and Circle  -Interpreting and Drawing Circle Graphs  **Chapter 5: Operations with Fractions** -Adding Fractions  -Subtracting Fractions  -Adding with Mixed Numbers  -Subtracting with Mixed Numbers | **Chapter 6: Equations** -Solving Equations  -Solving Equations involving Integers  -Solving Equations Using Algebra  **Chapter 7: Data Analysis** -Mean and Mode  -Median and Range  -Effects of Outliers on Average  -Application of Averages  -Ways to Express Probability  -Tree Diagrams  **Chapter 8: Geometry**  -Parallel Lines  -Perpendicular Lines  -Constructing Perpendicular Bisectors  -Constructing Angle Bisectors  -Graphing on a Coordinate Grid  -Graphing Translations and Reflections  **CVIS3160(2)**-Graphing Rotations |